

Fig. 1

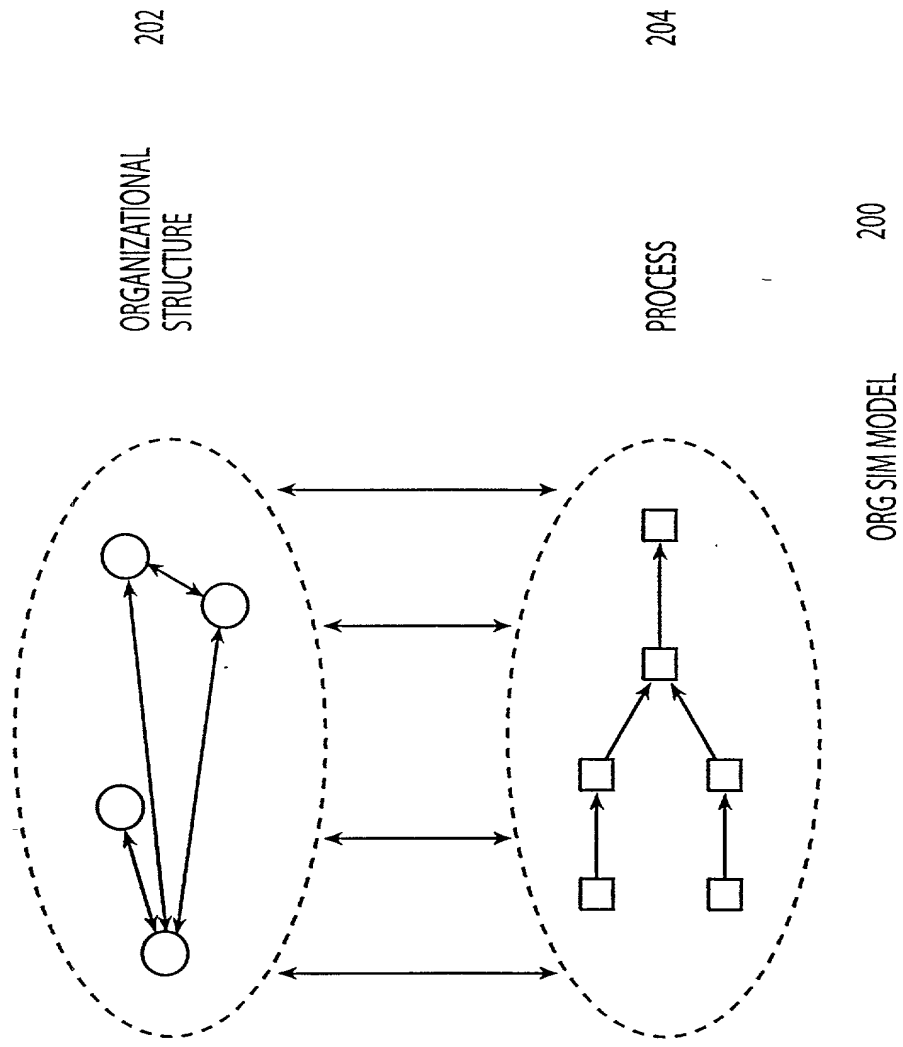


Fig. 2

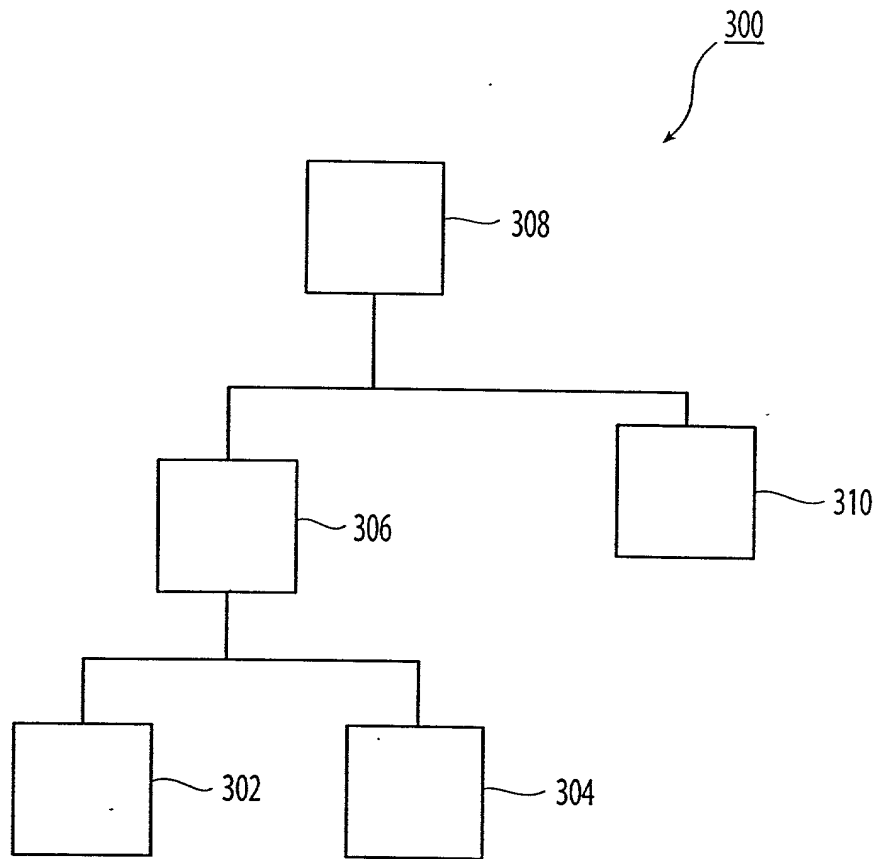


Fig. 3

PROCESS MODELS (ORGSIM)

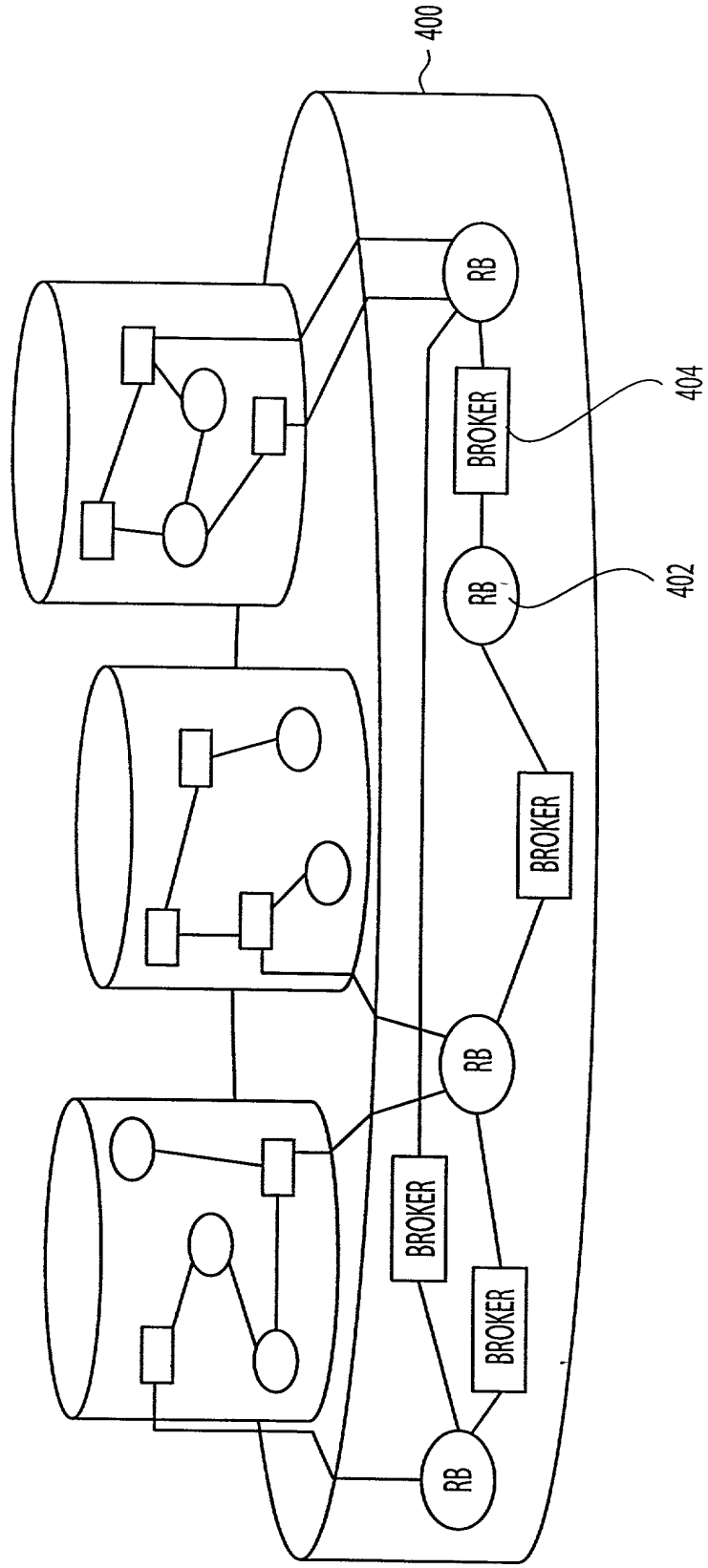


Fig. 4a

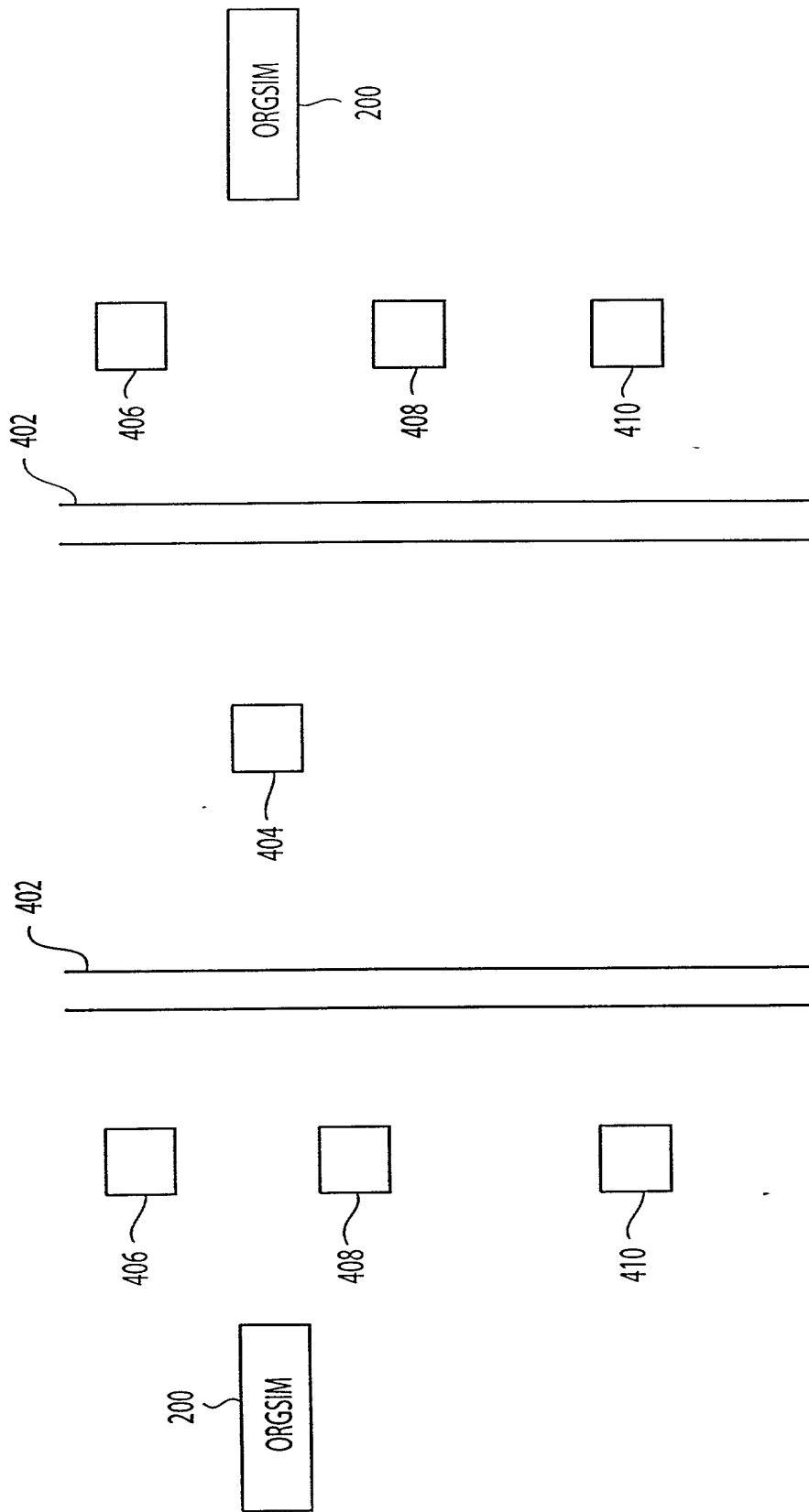


Fig. 4b

RESOURCE BUS (6): PROPAGATION			
• C1 REQUESTS	{B C D}	450	
• P1 OFFERS	{A B C D E}	452	
• C1 ACCEPTS	{A B C D E}	454	
• (IF NOT REQUESTED, EVENTUALLY LOST)		456	
• C1 AS P2 OFFERS	{A B C D}	458	
• C2 REQUESTS	{A B C,...} ETC...	460	

Fig. 4C

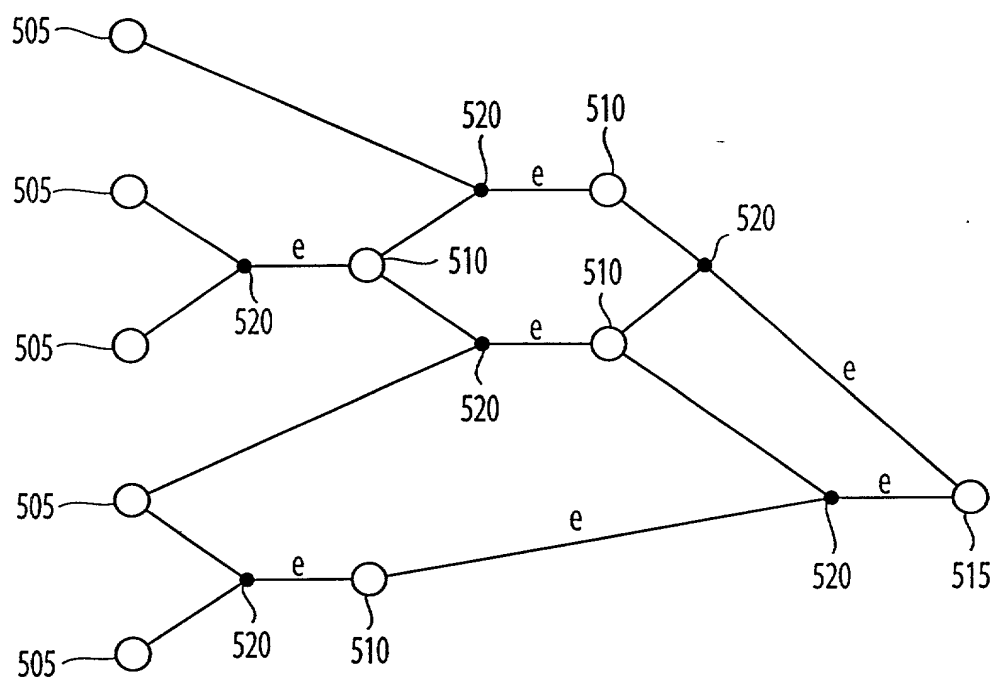


Fig. 5

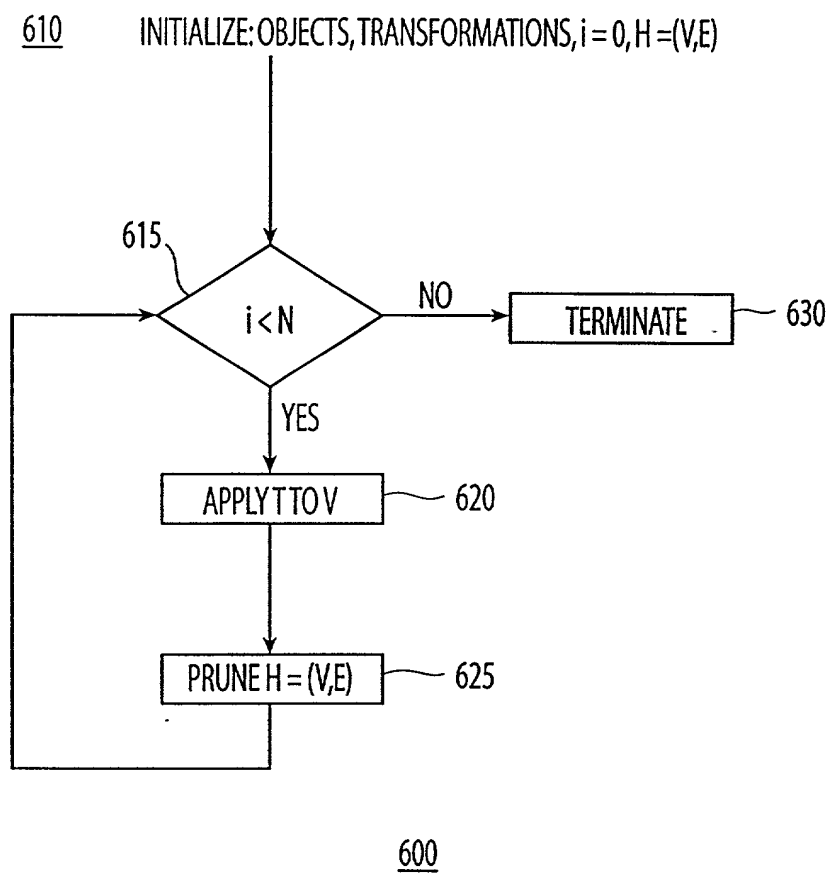
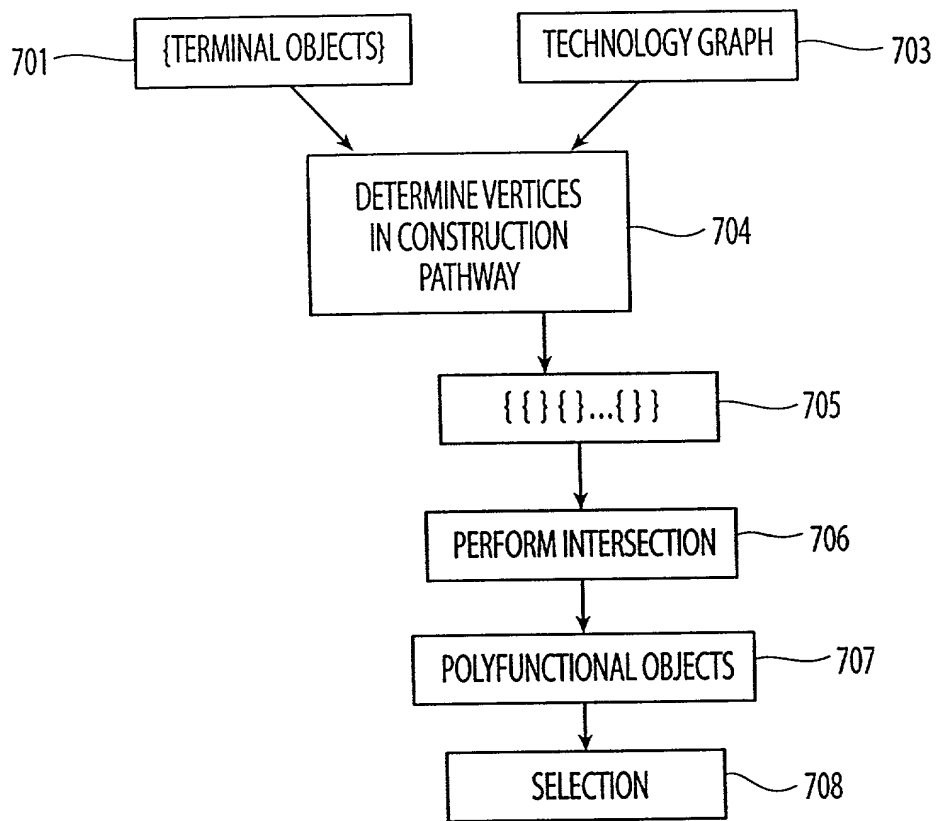


Fig. 6



700

Fig. 7

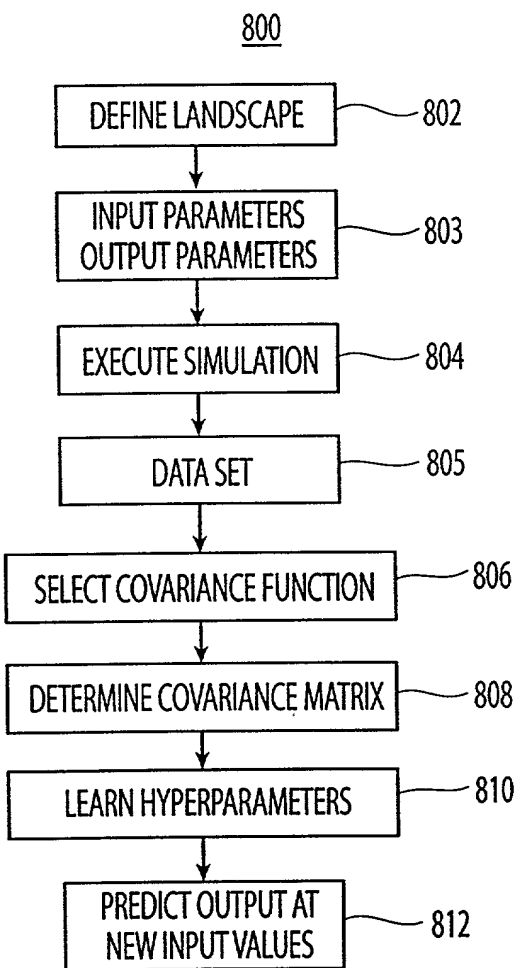


Fig. 8

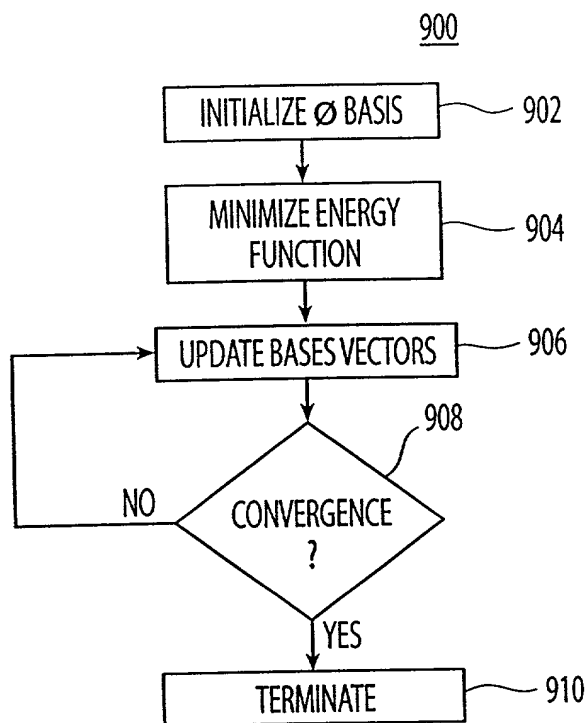


Fig. 9

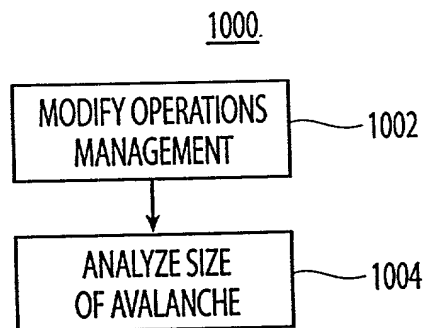


Fig. 10

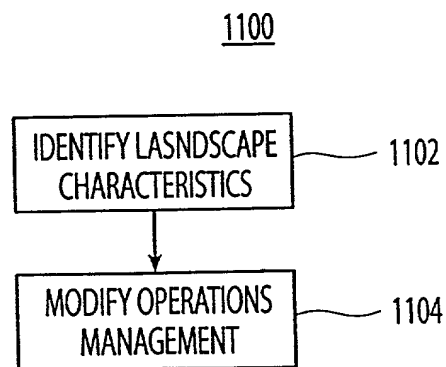


Fig. 11

1200

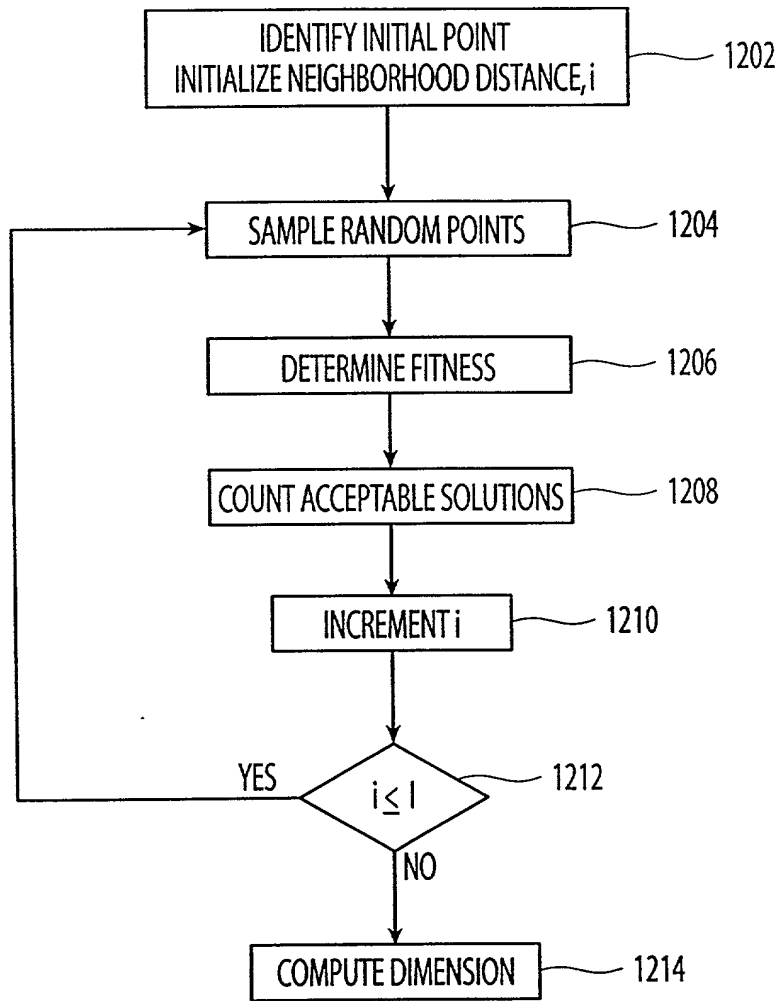


Fig. 12a

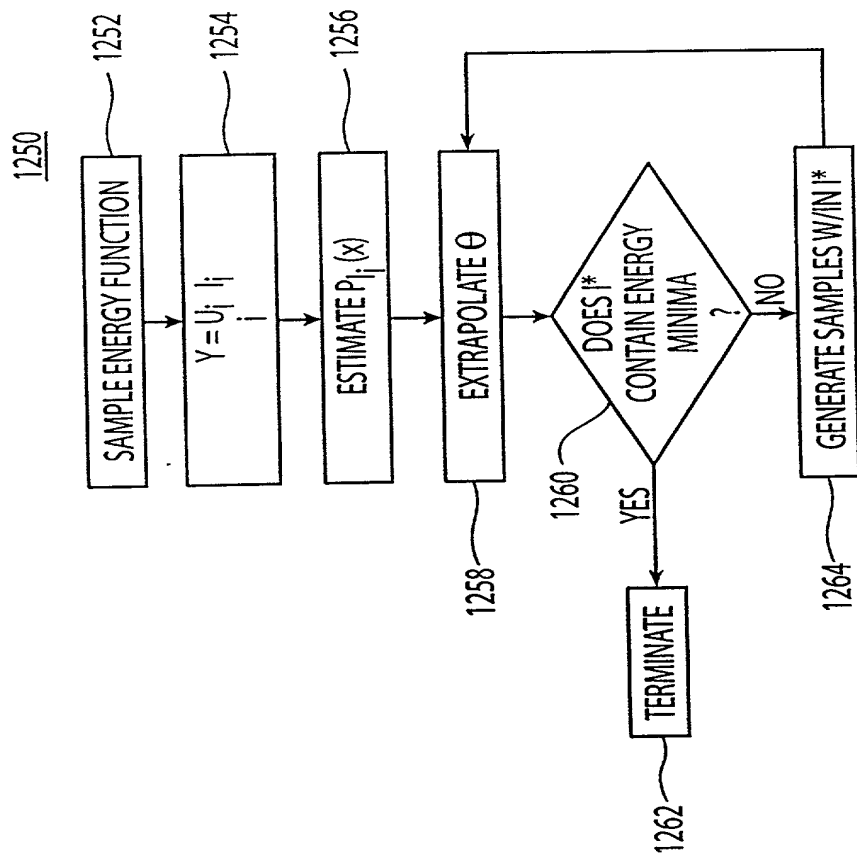


Fig. 12b

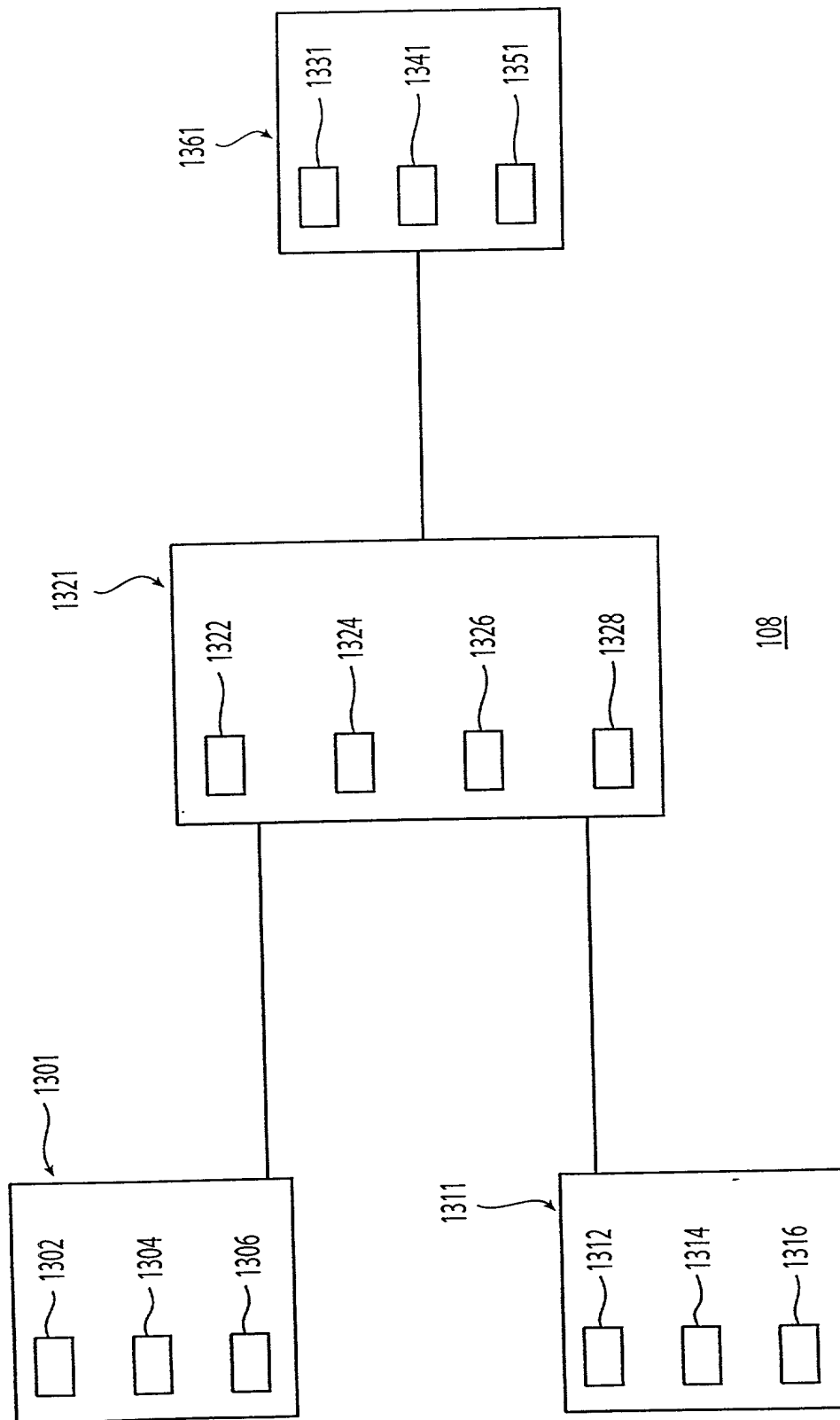


Fig. 13a

1350

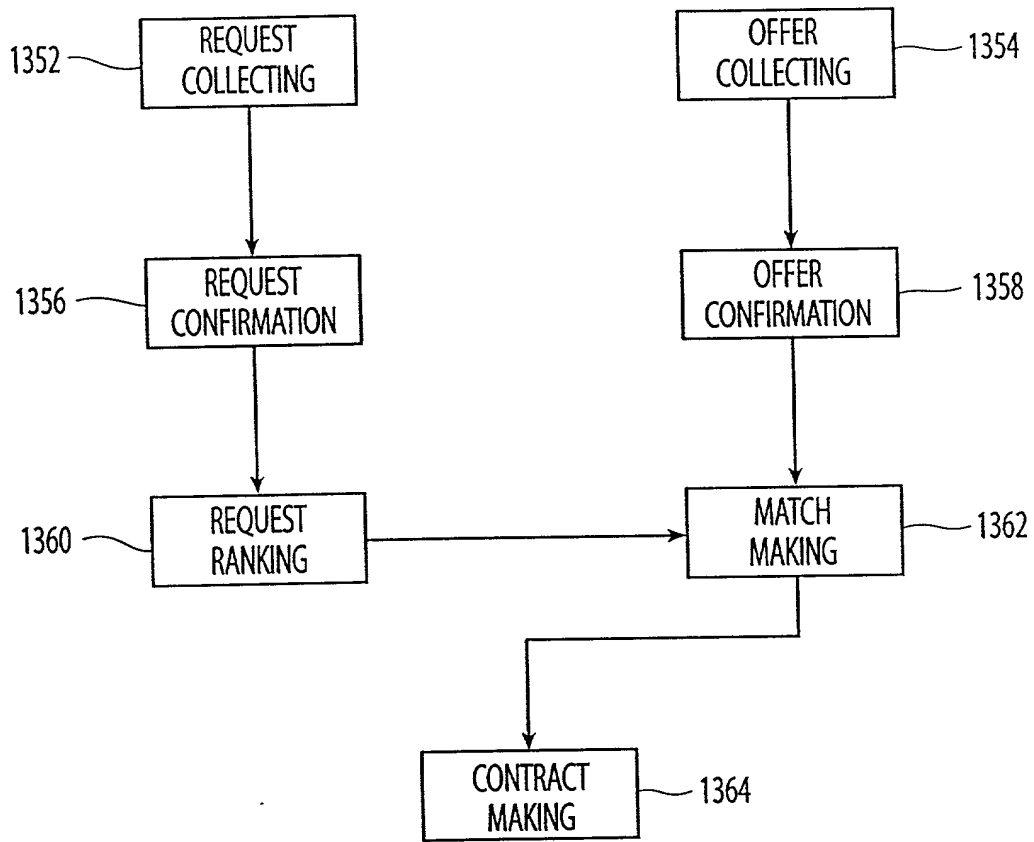


Fig. 13b

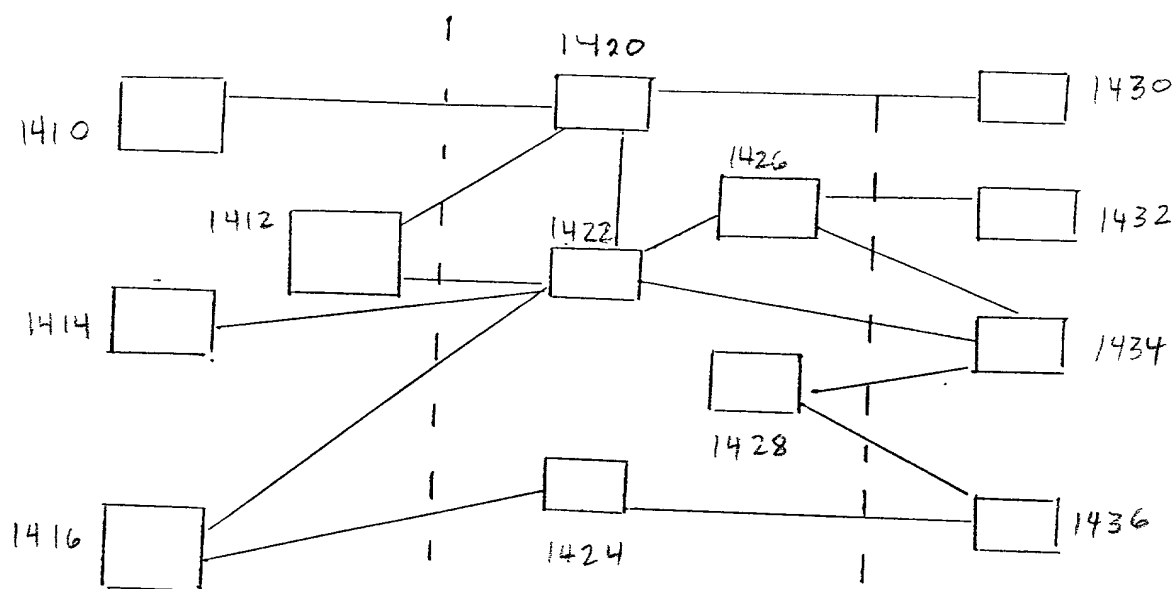


FIG. 14

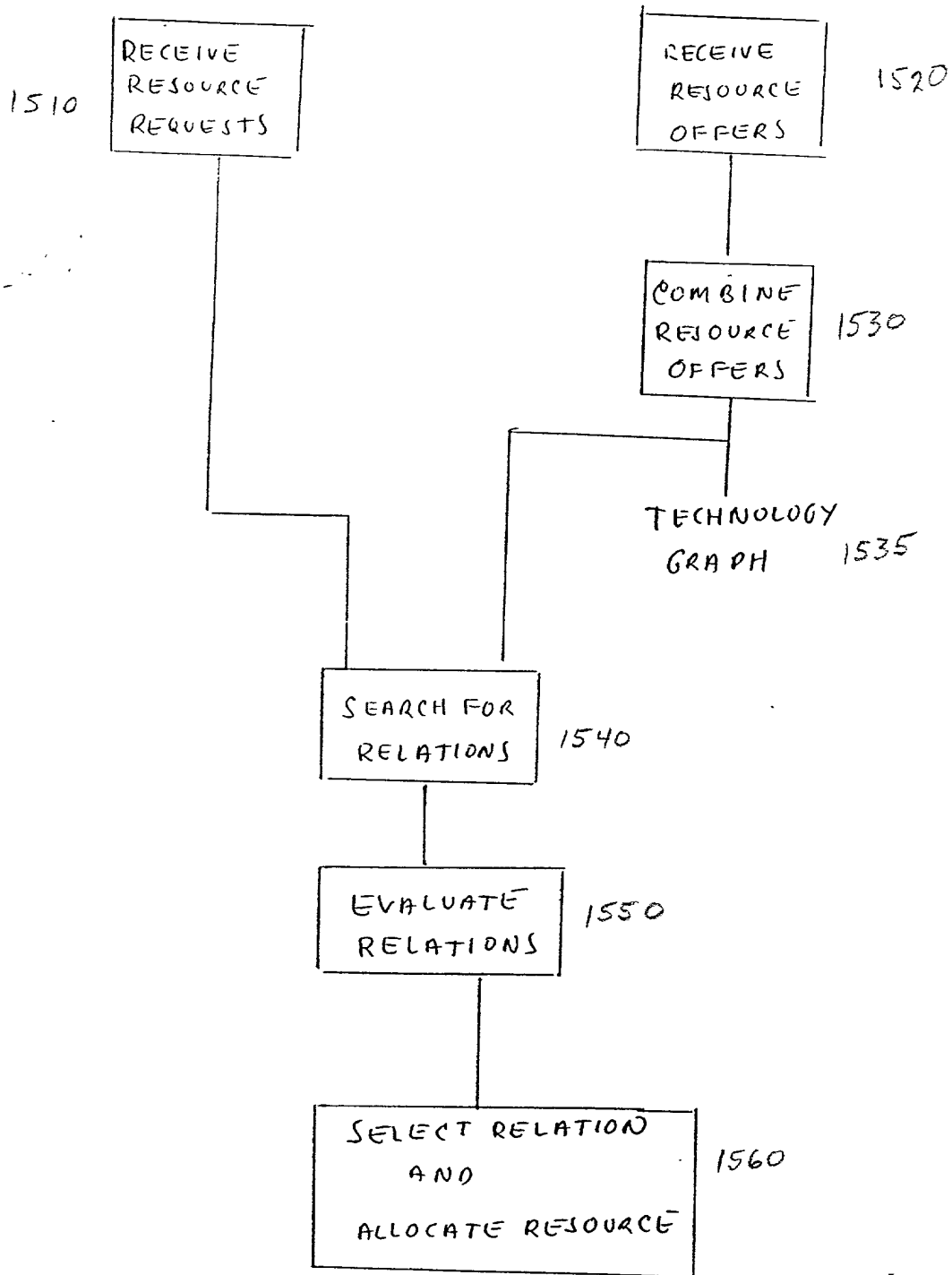


FIG. 15

Downloaded from www.98460

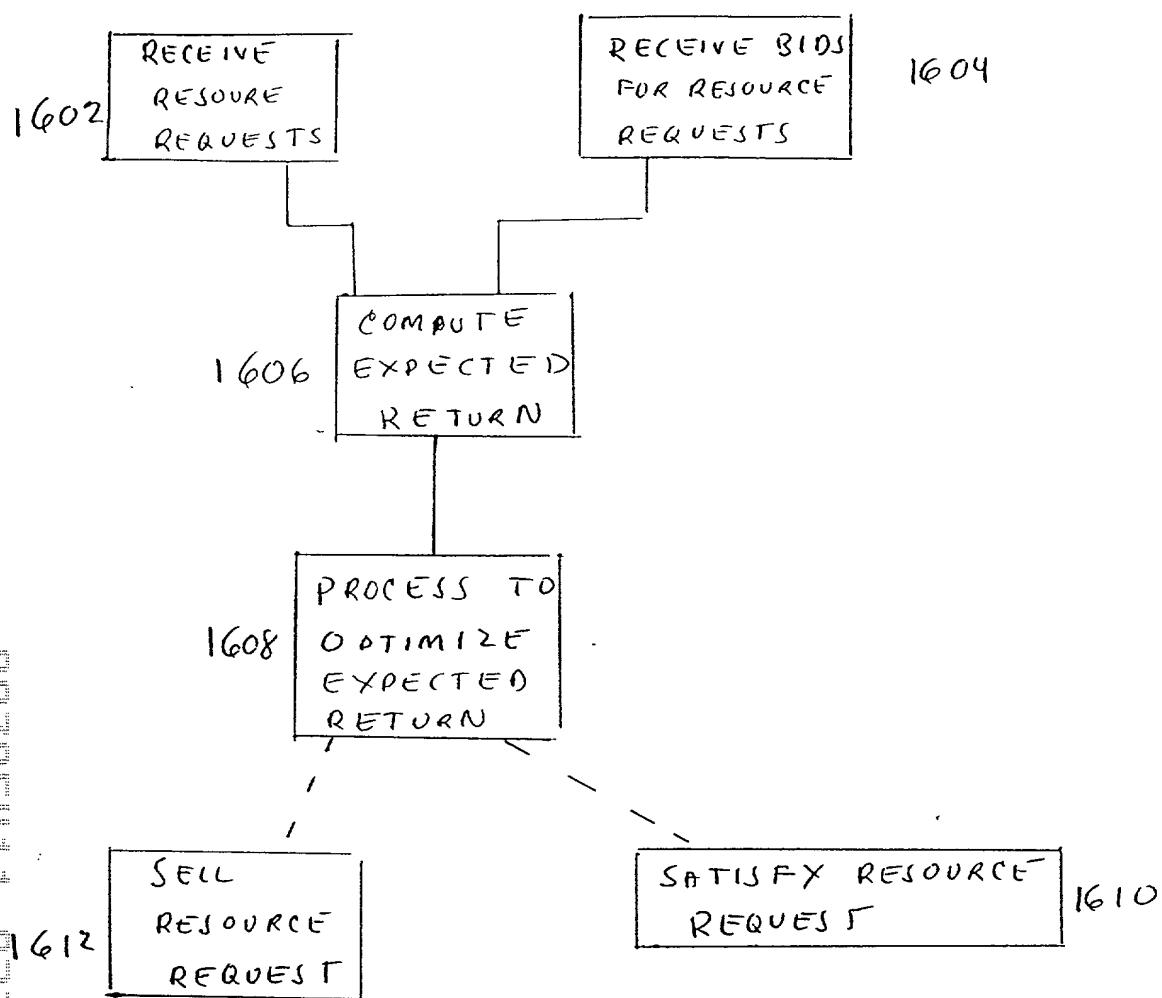
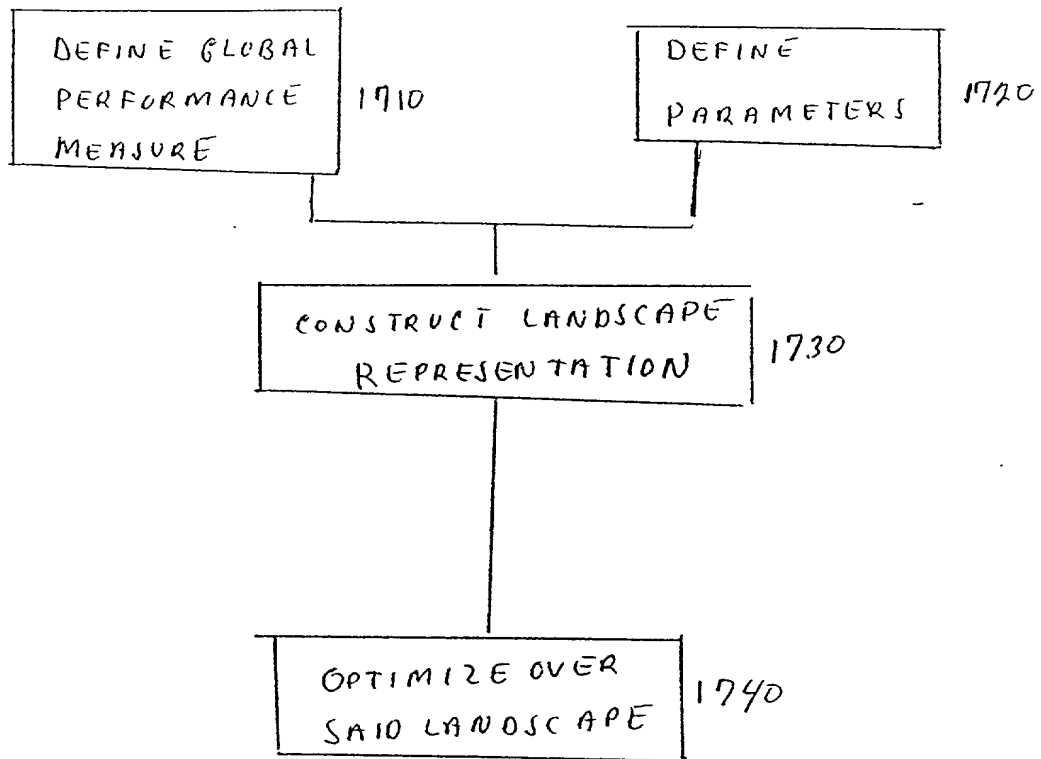


FIG. 16



1700

FIG. 17

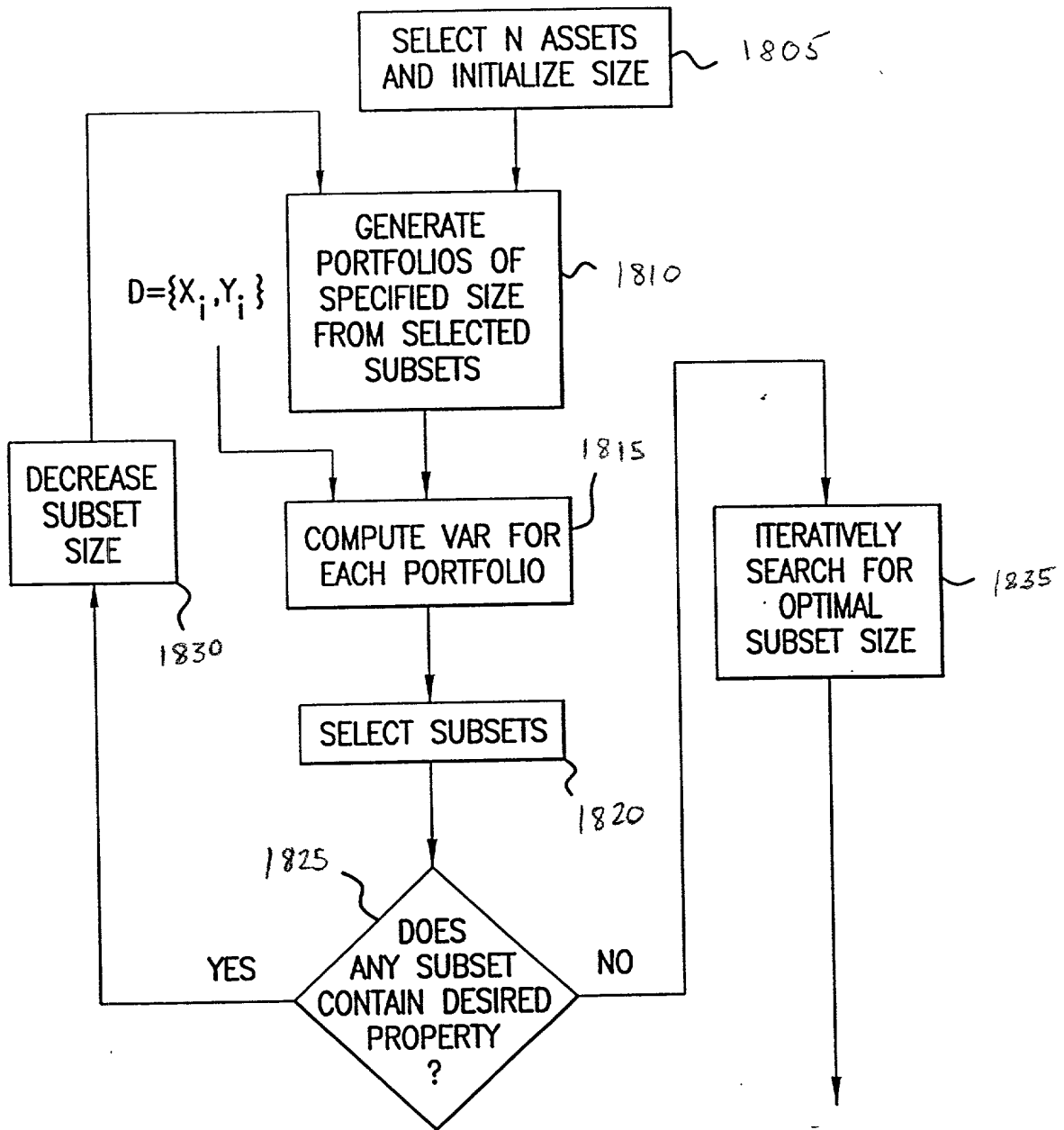


FIG. 18

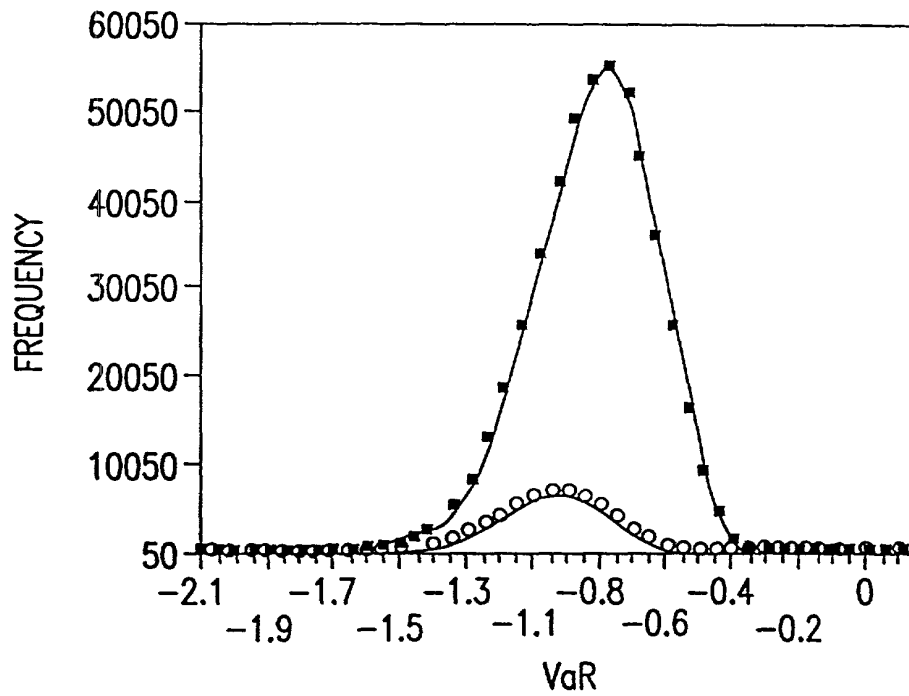


FIG. 19

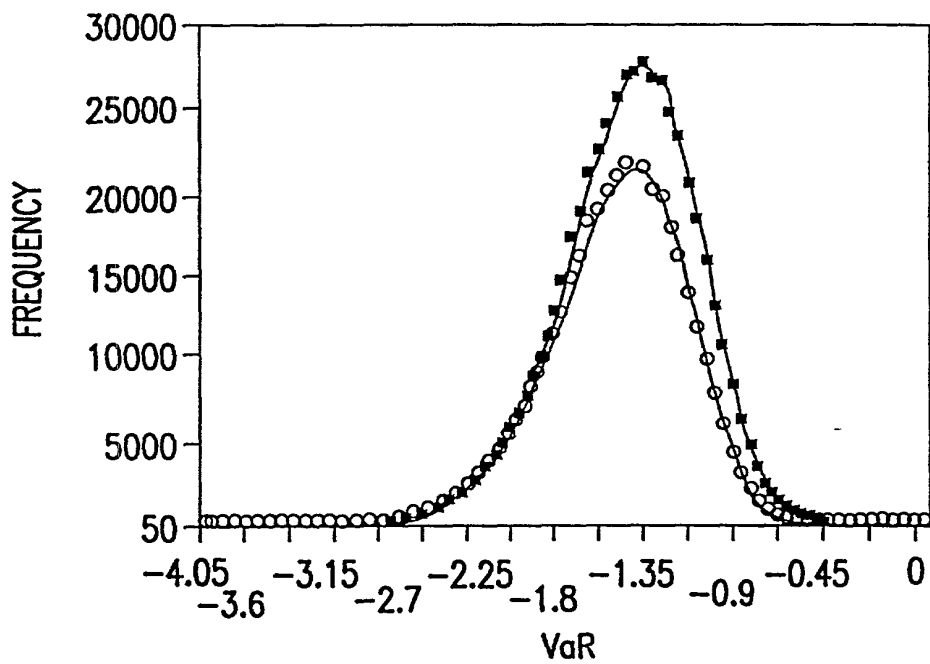


FIG. 20

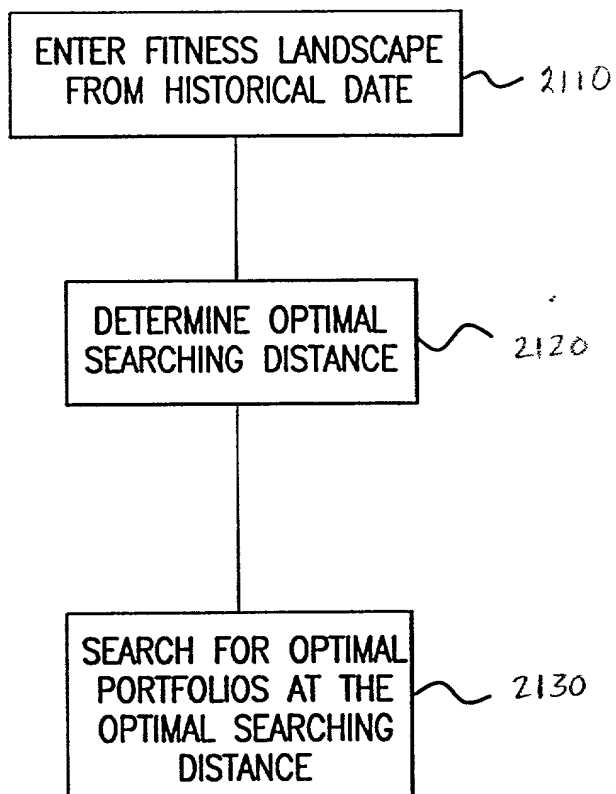


FIG. 21

$\{1, 1, \{2, -1.\}\}$
 $\{1, 2, \{1, -1.\}\}$
 $\{1, 3, \{5, -0.629195\}\}$
 $\{1, 4, \{5, -0.749052\}\}$
 $\{3, 5, \{3, -0.629195\}, \{4, -0.749052\}, \{24, -0.350841\}\}$
 $\{1, 6, \{8, -0.3866\}\}$
 $\{2, 7, \{8, -0.434322\}, \{9, -0.514114\}\}$
 $\{3, 8, \{6, -0.3866\}, \{7, -0.434322\}, \{9, -0.332176\}\}$
 $\{2, 9, \{7, -0.514114\}, \{8, -0.332176\}\}$
 $\{2, 10, \{11, -1.\}, \{17, -0.333359\}\}$
 $\{2, 11, \{10, -1.\}, \{15, -0.311709\}\}$
 $\{1, 12, \{14, -0.889441\}\}$
 $\{1, 13, \{14, -0.411215\}\}$
 $\{2, 14, \{12, -0.889441\}, \{13, -0.4112215\}\}$
 $\{3, 15, \{11, -0.311709\}, \{17, -0.593436\}, \{18, -0.602979\}\}$
 $\{2, 16, \{17, -0.503126\}, \{18, -0.52658\}\}$
 $\{3, 17, \{10, -0.333359\}, \{15, -0.593436\}, \{16, -0.503126\}\}$
 $\{2, 18, \{15, -0.60979\}, \{16, -0.52658\}\}$
 $\{1, 19, \{20, -1.\}\}$
 $\{1, 20, \{19, -1.\}\}$
 $\{1, 21, \{23, -0.770342\}\}$
 $\{1, 22, \{23, -0.696416\}\}$
 $\{2, 23, \{21, -0.770342\}, \{22, -0.696416\}\}$
 $\{1, 24, \{5, -0.350841\}\}$
 $\{2, 25, \{26, -0.491271\}, \{27, -0.459285\}\}$
 $\{2, 26, \{25, -0.491271\}, \{27, -0.49478\}\}$
 $\{2, 27, \{25, -0.459285\}, \{26, -0.49478\}\}$
 $\{1, 28, \{29, -1.\}\}$
 $\{1, 29, \{28, -1.\}\}$
 $\{1, 30, \{32, -0.794733\}\}$
 $\{1, 31, \{32, -0.53383\}\}$
 $\{2, 32, \{30, -0.794733\}, \{31, -0.53383\}\}$

FIG. 22

$\{3., 1., \{2., \underline{-1.}, \{47., -0.31\}, \{87., -0.3\}\}$
 $\{2., 2., \{1., \underline{-1.}, \{46., -0.31\}\}$
 $\{2., 3., \{5., \underline{-0.63\}, \{80., -0.34\}\}$
 $\{1., 4., \{5., \underline{-0.75\}\}$
 $\{3., 5., \{3., \underline{-0.63\}, \{4., \underline{-0.75\}, \{24., \underline{-0.35\}\}\}$
 $\{1., 6., \{8., -0.39\}\}$
 $\{2., 7., \{8., -0.43\}, \{9., \underline{-0.51\}\}$
 $\{4., 8., \{6., -0.39\}, \{7., -0.43\}, \{9., -0.33\}, \{44., -0.35\}\}$
 $\{5., 9., \{7., \underline{-0.51\}, \{8., -0.33\}, \{54., -0.3\}, \{75., -0.3\}, \{98., -42\}\}$
 $\{3., 10., \{11., \underline{-1.}, \{17., -0.33\}, \{39., -0.36\}\}$
 $\{2., 11., \{10., \underline{-1.}, \{15., -0.31\}\}$
 $\{3., 12., \{14., \underline{-0.89\}, \{62., -0.35\}, \{90., -0.3\}\}$
 $\{2., 13., \{14., -0.41\}, \{61., -0.31\}\}$
 $\{4., 14., \{12., \underline{-0.89\}, \{13., -0.41\}, \{82., -0.32\}, \{89., -0.35\}\}$
 $\{5., 15., \{11., -0.31\}, \{17., \underline{-0.59\}, \{18., \underline{-0.6\}, \{39., -0.31\}, \{80., -0.31\}\}$
 $\{3., 16., \{17., \underline{-0.5\}, \{18., \underline{-0.53\}, \{82., -0.32\}\}$
 $\{4., 17., \{10., -0.33\}, \{15., \underline{-0.59\}, \{16., \underline{-0.5\}, \{36., -0.38\}\}$
 $\{2., 18., \{15., \underline{-0.6\}, \{16., \underline{-0.53\}\}$
 $\{2., 19., \{20., \underline{-1.}, \{42., -0.3\}\}$
 $\{1., 20., \{19., \underline{-1.}\}$
 $\{3., 21., \{23., \underline{-0.77\}, \{45., -0.32\}, \{94., -0.3\}\}$
 $\{2., 22., \{23., \underline{-0.7\}, \{97., -0.32\}\}$
 $\{2., 23., \{21., \underline{-0.77\}, \{22., -0.7\}\}$
 $\{1., 24., \{5., -0.35\}\}$
 $\{2., 25., \{26., -0.49\}, \{27., -0.46\}\}$
 $\{2., 26., \{25., -0.49\}, \{27., -0.49\}\}$
 $\{2., 27., \{25., -0.46\}, \{26., -0.49\}\}$
 $\{3., 28., \{29., \underline{-1.}, \{48., -0.31\}, \{76., -0.31\}\}$
 $\{2., 29., \{28., \underline{-1.}, \{77., -0.3\}\}$
 $\{1., 30., \{32., \underline{-0.79\}\}$
 $\{2., 31., \{32., \underline{-0.53\}, \{89., -0.31\}\}$
 $\{3., 32., \{30., \underline{-0.79\}, \{31., \underline{-0.53\}, \{46., -0.31\}\}$
 $\{2., 33., \{35., -0.46\}, \{39., -0.31\}\}$
 $\{1., 34., \{36., -0.39\}\}$
 $\{4., 36., \{17., -0.38\}, \{34., -0.39\}, \{35., \underline{-0.51\}, \{54., -0.33\}\}$
 $\{1., 37., \{38., \underline{-1.}\}$
 $\{1., 38., \{37., \underline{-1.}\}$
 $\{4., 39., \{10., -0.36\}, \{15., -0.31\}, \{33., -0.31\}, \{41., -0.49\}\}$
 $\{1., 40., \{41., \underline{-0.79\}\}$
 $\{2., 41., \{39., -0.49\}, \{40., -0.79\}\}$
 $\{1., 42., \{19., -0.3\}\}$
 $\{3., 43., \{44., -0.43\}, \{45., -0.4\}, \{69., -0.31\}\}$
 $\{3., 44., \{8., -0.35\}, \{43., -0.43\}, \{45., \underline{-0.53\}\}$
 $\{3., 45., \{21., -0.32\}, \{43., -0.4\}, \{44., \underline{-0.53\}\}$
 $\{3., 46., \{2., -0.31\}, \{32., -0.31\}, \{47., \underline{-1.}\}$
 $\{2., 47., \{1., -0.31\}, \{46., \underline{-1.}\}$
 $\{2., 48., \{28., -0.31\}, \{50., \underline{-0.74\}\}$
 $\{1., 49., \{50., \underline{-0.72\}\}$
 $\{2., 50., \{48., \underline{-0.74\}, \{49., \underline{-0.74\}\}$

FIG. 23A

$\{2., 51., \{53., \underline{-0.62.}, \{54., \underline{-0.57}\}\}$
 $\{0., 52.\}$
 $\{2., 53., \{51., \underline{-0.62.}, \{94., \underline{-0.38}\}\}$
 $\{4., 54., \{9., \underline{-0.3.}, \{36., \underline{0.33.}, \{51., \underline{0.57.}, \{72., \underline{0.31}\}\}$
 $\{1., 55., \{56., \underline{-1.}\}\}$
 $\{1., 56., \{55., \underline{-1.}\}\}$
 $\{2., 57., \{59., \underline{-0.61.}, \{91., \underline{-0.47}\}\}$
 $\{1., 58., \{59., \underline{-0.79}\}\}$
 $\{2., 59., \{57., \underline{-0.61.}, \{58., \underline{-0.79}\}\}$
 $\{1., 60., \{63., \underline{-0.45}\}\}$
 $\{3., 61., \{13., \underline{-0.31.}, \{62., \underline{-0.3.}, \{63., \underline{-0.36}\}\}$
 $\{3., 62., \{12., \underline{-0.35.}, \{61., \underline{-0.3.}, \{63., \underline{-0.61}\}\}$
 $\{3., 63., \{60., \underline{-0.45.}, \{61., \underline{-0.36.}, \{62., \underline{-0.61}\}\}$
 $\{1., 64., \{65., \underline{-1.}\}\}$
 $\{1., 65., \{64., \underline{-1.}\}\}$
 $\{1., 66., \{68., \underline{-0.39}\}\}$
 $\{1., 67., \{68., \underline{-0.97}\}\}$
 $\{2., 68., \{66., \underline{-0.39.}, \{67., \underline{-0.97}\}\}$
 $\{1., 69., \{43., \underline{-0.31}\}\}$
 $\{1., 70., \{72., \underline{-0.45}\}\}$
 $\{1., 71., \{72., \underline{-0.63}\}\}$
 $\{3., 72., \{54., \underline{-0.31.}, \{70., \underline{-0.45.}, \{71., \underline{-0.63}\}\}$
 $\{1., 73., \{74., \underline{-1.}\}\}$
 $\{1., 74., \{73., \underline{-1.}\}\}$
 $\{2., 75., \{9., \underline{-0.3.}, \{77., \underline{-0.74}\}\}$
 $\{2., 76., \{28., \underline{-0.31.}, \{77., \underline{-0.71}\}\}$
 $\{3., 77., \{29., \underline{-0.3.}, \{75., \underline{-0.74.}, \{76., \underline{-0.71}\}\}$
 $\{3., 78., \{80., \underline{-0.65.}, \{81., \underline{-0.6.}, \{99., \underline{-0.31}\}\}$
 $\{2., 79., \{80., \underline{-0.5.}, \{81., \underline{-0.44}\}\}$
 $\{4., 80., \{3., \underline{-0.34.}, \{15., \underline{-0.31.}, \{78., \underline{-0.65.}, \{79., \underline{-0.5}\}\}$
 $\{2., 81., \{78., \underline{-0.6.}, \{79., \underline{-0.44}\}\}$
 $\{3., 82., \{14., \underline{-0.32.}, \{16., \underline{-0.32.}, \{83., \underline{-1.}\}\}$
 $\{1., 83., \{82., \underline{-1.}\}\}$
 $\{1., 84., \{86., \underline{-0.59}\}\}$
 $\{1., 85., \{86., \underline{-0.85}\}\}$
 $\{2., 86., \{84., \underline{-0.59.}, \{85., \underline{-0.85}\}\}$
 $\{1., 87., \{1., \underline{-0.3}\}\}$
 $\{0., 88.\}$
 $\{3., 89., \{14., \underline{-0.35.}, \{31., \underline{-0.31.}, \{90., \underline{-0.92}\}\}$
 $\{2., 90., \{12., \underline{-0.3.}, \{89., \underline{-0.92}\}\}$
 $\{1., 91., \{57., \underline{-0.47}\}\}$
 $\{0., 92.\}$
 $\{0., 93.\}$
 $\{2., 94., \{21., \underline{-0.3.}, \{53., \underline{-0.38}\}\}$
 $\{0., 95.\}$
 $\{0., 96.\}$
 $\{1., 97., \{22., \underline{-0.32}\}\}$
 $\{1., 98., \{9., \underline{-0.42}\}\}$
 $\{1., 99., \{78., \underline{-0.31}\}\}$
 $\{0., 1.0 \times 10^2\}$

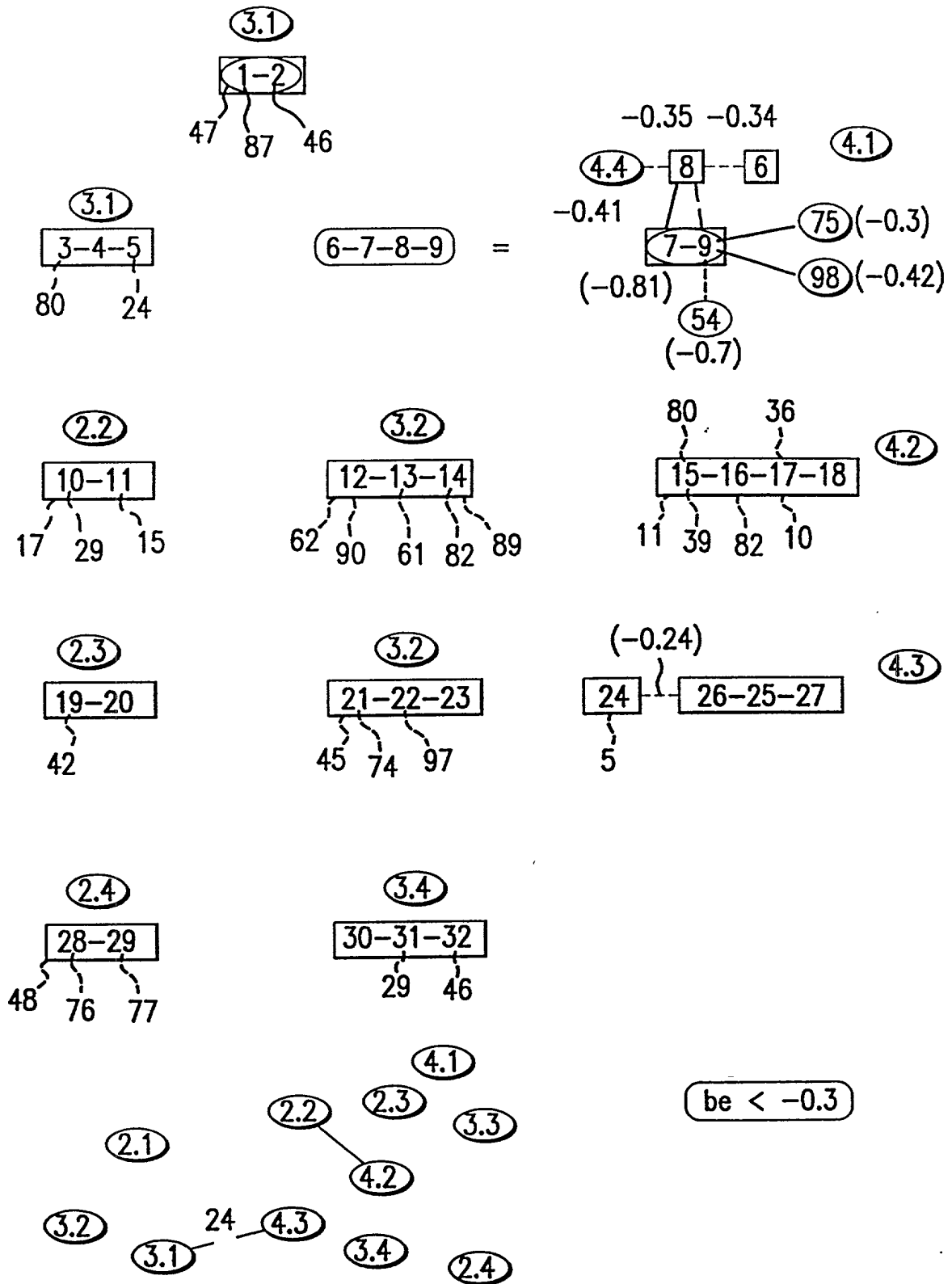


FIG. 24

092541-02001
100220-149260

DETERMINE RELATIONS 2510



CONSTRUCT GRAPH
REPRESENTATION 2520



DETERMINE PATHS 2530



DETERMINE GROUP OF RESOURCES 2540
ON PATHS HAVING MINIMAL RISK

2500

FIG. 25

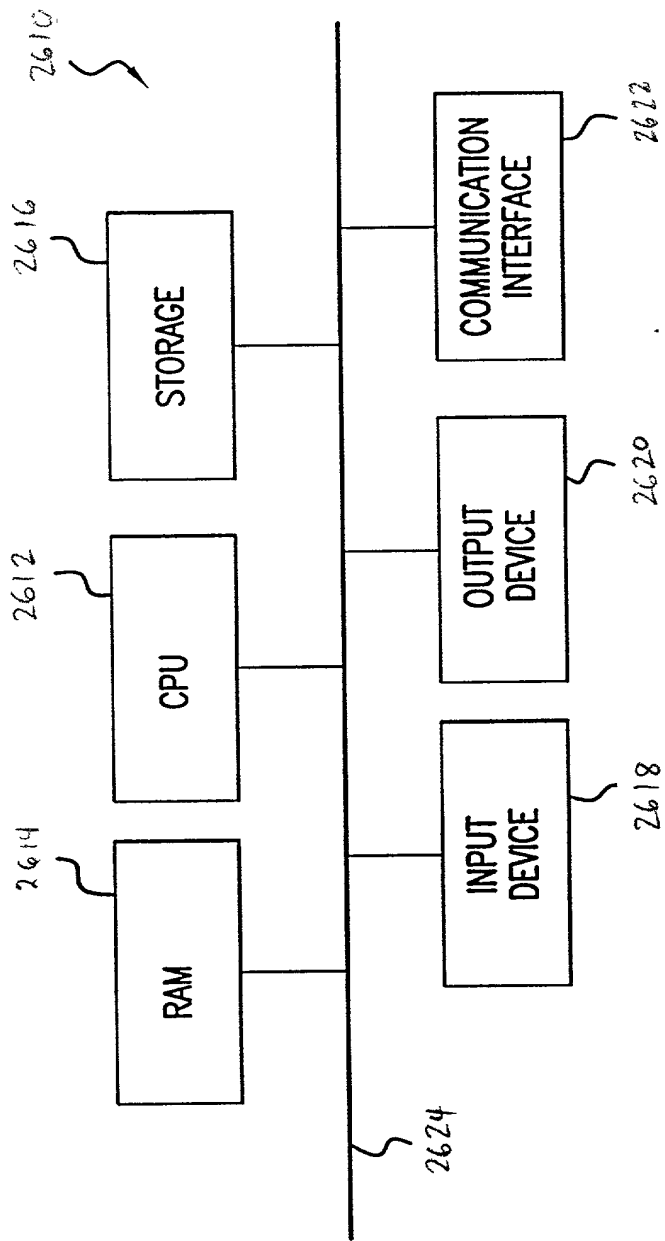


FIG. 26